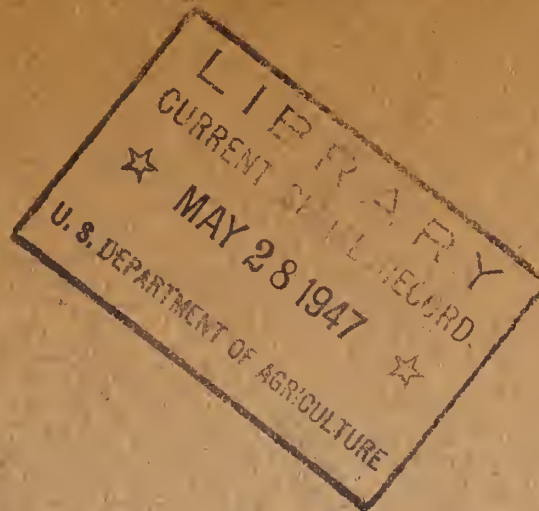


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✓ NEVADA COOPERATIVE SNOW SURVEYS

✓ NEVADA ✓ SNOW SURVEY BULLETIN

MARCH 1947.

✓ Nevada Agricultural Experiment Station
Reno, Nevada

TABLE OF CONTENTS

	<u>Page</u>
Snow Course Map	Frontespiece
Preliminary Water Supply Outlook	1
Preliminary Streamflow Forecasts	2
Reservoir Storage	5
Valley Precipitation	6
Snow Survey Measurements	7
List of Snow Surveyors	13
List of Cooperators	Inside Back Cover

FEDERAL-STATE COOPERATIVE
SNOW SURVEYS AND IRRIGATION WATER FORECASTS
FOR
NEVADA

Report Prepared

by

✓
Clyde E. Houston- Hydraulic Engineer
Division of Irrigation
Soil Conservation Service

and

✓
H. P. Boardman- Chairman
Nevada Cooperative Snow Surveys

NEVADA AGRICULTURAL EXPERIMENT STATION
RENO, NEVADA

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U.S. DEPARTMENT OF AGRICULTURE
WASHINGTON, D.C.

1934

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Report Progress

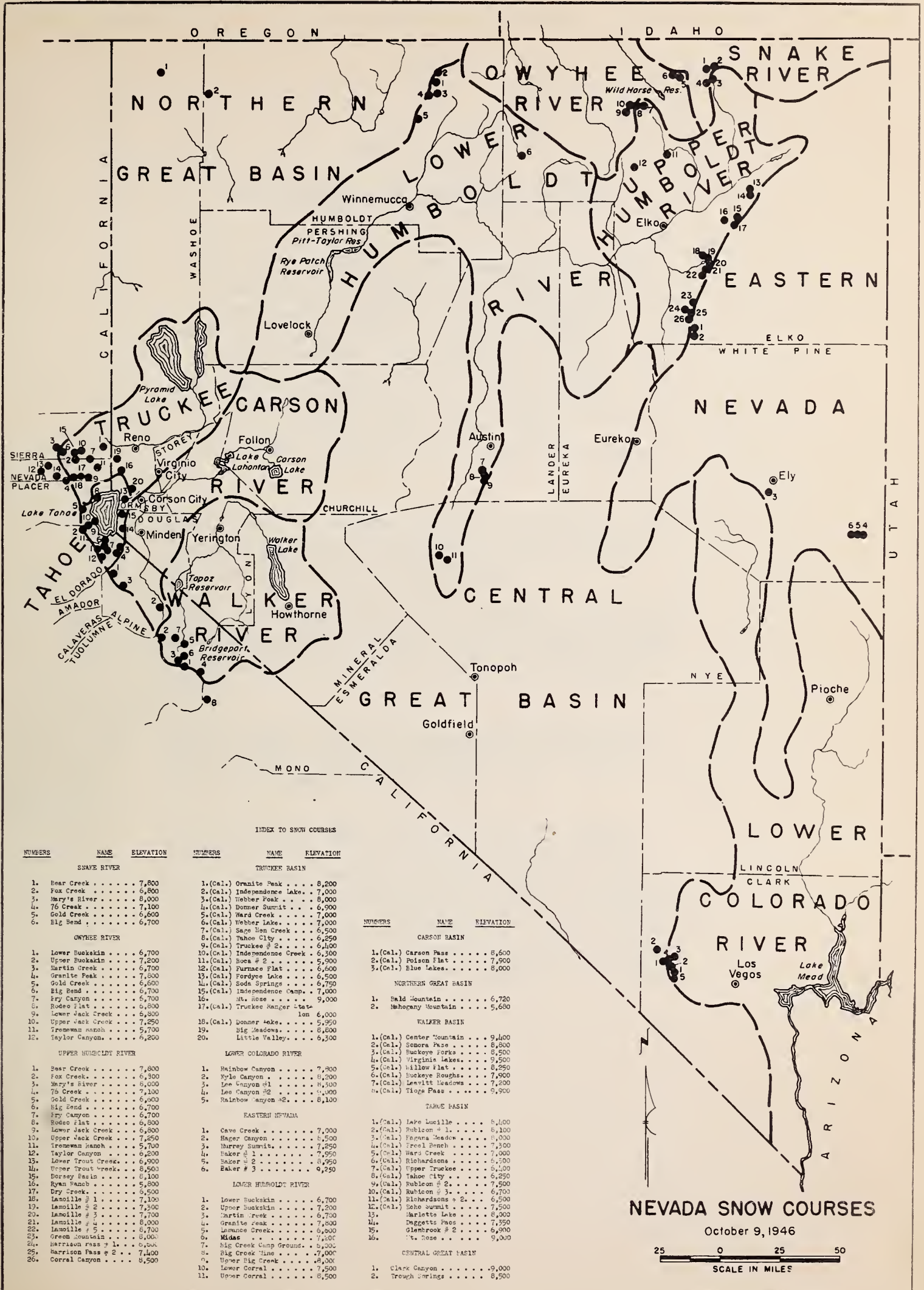
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Division of Education
Bureau of Agricultural Education

and

U. S. Department of Agriculture
Bureau of Agricultural Education

U. S. DEPARTMENT OF AGRICULTURE
WASHINGTON, D.C.



March 1, 1947

PRELIMINARY WATER SUPPLY OUTLOOK

* * * * *

* As of this date, the snow water crop*

* in Nevada is very low. With soil *

* moisture conditions good, ground *

* water storage fair and snow water *

* storage poor, the outlook for the *

* coming season is for a fair early *

* water supply but a poor supply dur- *

* ing midseason and late season. *

* * * * *

Water stored in snow throughout Nevada is below average on 89 percent of the 64 snow courses measured at this date.

Total precipitation since October 1 throughout the valleys of the state is above normal except along Truckee River and in Eastern Nevada.

Valley soils are well saturated throughout most of the state and ground water conditions are practically normal.

Reservoir storage is good with the March 1 storage about 97 percent of last year and about 110 percent of the 1936-1945 average. Total storage is about 75 percent of capacity of the reservoirs. Lake Mead is low with present storage only 60 percent of usable capacity and 80 percent of the average for this date.

— *Journal of the American Medical Association*, 1997

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Water drops in size throughout the year
but average in the range of the 40-50
micron diameter of this water.

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the underlying causes. Once the causes have been identified, the next step is to develop a plan of action. This involves identifying the steps that need to be taken to solve the problem and determining the resources that will be needed to implement the plan. Finally, the last step in the process is to evaluate the results of the plan. This involves monitoring the progress of the plan and determining whether the problem has been solved.

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Local efforts to date have been successful in reducing the number of deaths from this disease. In the past, the death rate from this disease was about 10 percent of the total population. In the past, the death rate from this disease was about 10 percent of the total population. In the past, the death rate from this disease was about 10 percent of the total population.

PRELIMINARY STREAMFLOW FORECASTS, MARCH 1, 1947

BASIN AND STREAM	April-July, inclusive Streamflow Thousands Acre Ft.				
	Forecast	Measured Run-off			10-yr. avg.
	1947	1946	1945	1944	1936-1945
Owyhee River at Mountain City, Nevada	30	68	90	39	63
Lamoille Creek near Lamoille, Nevada	20	25	37	29	28 ^a
South Fork Humboldt River near Elko, Nevada	50	90	168	101	88 ^a
Humboldt River at Palisade, Nevada	150	256	486	229	250
Martin Creek near Paradise, Nevada	10	14	23	13	17
Truckee River at Farad, California	No forecast until Apr. 1	270	250	179	288
Carson River at Fort Churchill, Nevada	"	154	210	97	199
East Walker River near Bridgeport, California ^b	"	58	101	45	83
West Walker River near Coleville, California	"	151	191	113	172

a - For period 1937-1945

b - For period April-August inclusive

PRELIMINARY STREAMFLOW FORECAST
(April through July)

Snake River in Nevada

Snow water contributions to runoff of Salmon Falls Creek and Bruneau River will be about 65 percent and 50 percent of normal respectively. Flow of Owyhee River at Mountain City is forecasted at 30,000 acre-feet or less than 50 percent of normal. Wildhorse Reservoir, with a capacity of 33,000 acre-feet, now has 14,000 acre-feet in storage. Under normal conditions this reservoir will be full in May.

Upper Humboldt River

Marys River may be expected to flow about 60 percent of normal while North Fork, Susie and Maggie Creeks will discharge less than 50 percent of normal.

The southern feeders to the Humboldt River from Trout Creek to Lamoille Creek will flow about 50 percent of normal while Lamoille Creek is forecasted to discharge about 20,000 acre feet or 70 percent of normal measured near Lamoille. The forecasted runoff of South Fork near Elko is 50,000 acre-feet or about 60 percent of normal. The remaining southern feeders will flow about 70 percent of normal. The forecasted flow of Humboldt River at Palisade is about 150,000 acre feet or about 60 percent of last year.

The general water outlook for the Upper Humboldt Basin is for normal supplies early in the irrigation season decreasing to noticeable shortages during the late season.

Lower Humboldt River

Water will be short in the Paradise Valley Area with Martin Creek forecasted to flow about 10,000 acre-feet or 60 percent of average. Here too, early season supplies will be adequate with shortages appearing during the summer and fall. Reese River area is in better condition than at the same date last year with runoff expected to reach about 90 percent of normal. The main stem of the Lower Humboldt will be short of natural streamflow, but this shortage will be alleviated in Pershing County Water Conservation District by the capacity storage of 178,000 acre feet in Rye Patch Reservoir on March 1.

Eastern Nevada

Snow water runoff into Ruby Valley and Steptoe Valley will be about 70 percent of normal while Baker and Lehman Creeks will flow about normal.

Lower Colorado River

Snow cover in the Spring Mountains near Las Vegas is about 150 percent of last year and 70 percent of normal. Lake Mead is lower than at anytime since 1938 which was the latter period of its initial filling.

Sierra Nevada

Tahoe, Truckee, Carson and Walker River forecasts will be presented in the April 1 Snow Survey Bulletin. March 1 surveys at key courses indicate in general that the snow pack is about 50 percent of last year at this date and 50 percent of the 1936-1945 April 1 average. Reservoir storage in these basins is good with March 1 storage about 90 percent of last year and 115 percent of the 1936-1945 average.

STATUS OF RESERVOIR STORAGE, MARCH 1, 1947.

BASIN AND STREAM	RESERVOIR	USABLE	THOUS. ACRE FEET USABLE STORAGE				ABOUT MAR. 1 10-yr. avg. 1936-1945
		CAPACITY (Thous. A.F.)	1947	1946	1945	1944	
Owyhee	Wildhorse	33	14	20	12	14	10 ^a
Lower Humboldt	Pitt Taylor	27	21	14	11	- b	22 ^c
Lower Humboldt	Rye Patch	178	178	161	178	157	169 ^d
Tahoe	Tahoe	750	508	543	423	475	407
Carson	Lahontan	286	220	229	238	257	223
West Walker	Topaz	59	46	56	41	44	41
East Walker	Bridgeport	42	41	58	38	40	56
Colorado	Mead	27,935	16,692	18,275	18,772	19,790	20,158 ^e

a - Average for years 1940-1945

b - No record

c - Average for years 1937-1942, 1945

d - Average for years 1943-1945

e - Average for years 1939-1945

VALLEY PRECIPITATION^a

Division	Current Year		Last Year	
	<u>Oct.1,1946 - Mar.1,1947</u>		<u>Oct.1,1945 - Mar.1,1946</u>	
	P	D	P	D
Snake River	4.32	+1.50	2.29	-.53
Upper Humboldt	6.37	+1.23	4.36	-.78
Lower Humboldt	5.44	+1.12	4.34	+.02
Eastern Nevada	4.15	- .15	3.28	-1.02
Lower Colorado	1.95	0	1.13	-.82
Central Great Basin	5.27	+3.34	2.48	+.55
Northern Great Basin	2.77	+.10	2.56	-.11
Truckee	5.61	-1.09	4.41	-.29
Carson	2.78	+.37	2.06	-.35
Walker	3.64	+1.45	2.26	+.07

P = Inches Precipitation

D = Inches Departure from Normal

a = Data furnished by U. S. Weather Bureau

NEVADA SNOW SURVEYS MARCH 1, 1947

DRAINAGE BASIN and SNOW COURSE		LOCATION			SNOW COVER MEASUREMENTS						
		Number	Sec. Twp. Rge. Elev.	Date of Survey	Snow Depth (inches)	Water Content (inches)			Past Record Years of Record	Av. Water Content (inches)	
1947	1946					1945					
SNAKE RIVER											
Bear Creek	1	31	46N 58E 7800	2/24	43.6	13.4	17.2	13.4	15	16.1	
Fox Creek	2	33	46N 58E 6800	2/25	16.4	4.9	9.4	6.9	15	8.6	
Mary's River	3	34	45N 58E 8000	2/26	30.5	9.2	16.9	No Survey	9	17.7	
76 Creek	4	6	44N 61E 7100	2/26	23.4	6.9	13.3	New Course	1	13.3	
Gold Creek	5	31	45N 56E 6600	3/4	12.9	3.2	7.3	6.3	15	6.8	
Big Bend	6	30	45N 56E 6700	3/4	20.6	5.3	10.1	8.1	18	9.1	
OHYHEE RIVER											
Lower Buckskin	1	25	45N 39E 6700	No Survey			7.1	8.8	14	8.2	
Upper Buckskin	2	11	45N 39E 7200	No survey			6.7	14.2	14	10.0	
Martin Creek*	3	18	44N 40E 6700	2/28	10.8	3.8	6.7	6.6	15	7.2	
Granite Peak*	4	22	44N 39E 7800	2/28	19.5	6.8	13.0	11.4	20	9.7	
Gold Creek	5	31	45N 56E 6600	3/4	12.9	3.2	7.3	6.3	15	6.8	
Big Bend	6	30	45N 56E 6700	3/4	20.6	5.3	10.1	8.1	18	9.1	
Fry Canyon	7	31	43N 54E 6700	3/1	16.5	4.3	8.8	8.6	13	9.5	
Rodeo Flat	8	36	43N 53E 6800	3/1	16.6	4.7	9.5	10.0	13	10.4	
Lower Jack Creek	9	18	42N 53E 6800	3/2	7.0	1.2	5.2	6.6	18	5.2	
Upper Jack Creek	10	9	42N 53E 7250	3/2	22.8	5.2	9.7	10.7	11	10.1	
Tremewan Ranch	11	9	39N 55E 5700	No Snow			2.5	2.2	15	3.0	
Taylor Canyon	12	35	39N 53E 6200	3/2	2.4	0.5	6.7	7.6	12	6.5	

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晴 微风 气温 15-25

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10月18日 星期三

晴 微风 气温 16-26

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下午 2时 下课

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10月19日 星期四

晴 微风 气温 17-27

NEVADA SNOW SURVEYS MARCH 1, 1947

DRAINAGE BASIN and SNOW COURSE		LOCATION			Elev.	Date of Survey	Snow Depth (inches)	SNOW COVER MEASUREMENTS			Years of Record	Av. Water Content (inches)
		Number	Sec.	Twp.				Water Content (inches)				
								1947	1946	1945		
UPPER HUMBOLDT												
Bear Creek		1	31	46N	58E	6700	2/24	43.6	17.2	13.4	15	16.1
Fox Creek		2	33	46N	58E	7200	2/25	16.4	9.4	6.9	15	8.6
Marys River		3	34	45N	58E	6700	2/26	30.5	16.9	No Survey	9	17.7
76 Creek		4	6	44N	61E	7800	2/26	23.4	13.3	New Course	1	13.3
Gold Creek		5	31	45N	56E	6600	3/4	12.9	7.3	6.3	15	6.8
Big Bend		6	30	45N	56E	6700	3/4	20.6	10.1	8.1	18	9.1
Fry Canyon		7	31	43N	54E	6700	3/1	16.5	8.8	8.6	13	9.5
Rodeo Flat		8	36	43N	53E	6800	3/1	16.6	9.5	10.0	13	10.4
Lower Jack Creek		9	18	42N	53E	6800	3/2	7.0	5.2	6.6	18	5.2
Upper Jack Creek		10	9	42N	53E	7250	3/2	22.8	9.7	10.7	11	10.1
Tremewan Ranch		11	9	39N	55E	5700	3/1	No Snow	2.5	2.2	15	3.0
Taylor Canyon		12	35	39N	53E	6200	3/2	2.4	6.7	7.6	12	6.5
Lower Trout Creek		13	28	37N	61E	6900	2/28	7.8	No Survey	6.4	11	6.2
Upper Trout Creek*		14	4	36N	61E	8500	2/28	34.6	No Survey	21.1	11	20.2
Dorsey Basin		15	27	35N	60E	8100		No Survey	11.1	10.1	15	11.0
Ryan Ranch		16	1	34N	59E	5800	3/1	No Snow	.9	3.1	15	2.3
Dry Creek		17	5	34N	60E	6500		No Survey	5.9	5.8	14	5.9
Lamoille #1		18	15	32N	58E	7100	3/3	26.9	9.6	10.5	19	9.2
Lamoille #2		19	14	32N	58E	7300	3/3	22.0	10.0	10.3	19	9.6
Lamoille #3		20	24	32N	58E	7700	3/3	31.5	12.7	12.4	12	12.5
Lamoille #4		21	19	32N	59E	8000	3/3	45.6	17.4	No Survey	6	17.2
Lamoille #5*		22	31	32N	59E	8700	3/3	66.5	30.1	22.1	12	23.7
Green Mountain		23	23	29N	57E	8000	2/27	24.9	12.8	13.2	12	13.6
Harrison Pass #1		24	10	28N	57E	6600	2/28	10.5	4.4	5.9	18	5.6
Harrison Pass #2		25	16	28N	57E	7400	2/28	11.1	4.6	6.9	17	6.6
Corral Canyon		26	27	28N	57E	8500	2/26	45.5	18.3	18.1	12	14.4

NEVADA SNOW SURVEYS MARCH 1, 1947

DRAINAGE BASIN and SNOW COURSE	LOCATION		SNOW COVER MEASUREMENTS										
	Number	Sec. Twp. Rge. Elev.	Date of Survey	Snow Depth (inches)	Water Content (inches)			Past Record					
					1947	1946	1945	Years of Record	Av. Water Content (inches)				
LOWER HUMBOLDT													
Lower Buckskin	1	25	45N 39E	6700	No Survey		7.1	8.8	14	8.2			
Upper Buckskin	2	11	45N 39E	7200	No Survey		6.7	14.2	14	10.0			
Martin Creek*	3	18	44N 40E	6700	2/28	10.8	6.7	6.6	15	7.2			
Granite Peak*	4	22	44N 39E	7800	2/28	19.5	13.0	11.4	20	9.7			
Lamance Creek	5	13	42N 38E	6600	No Survey		10.3	9.6	15	10.7			
Midas	6	18	39N 46E	7200	3/1	Trace	5.2	7.9	7	6.7			
Big Creek Camp Ground	7	10	17N 43E	6000	2/27	4.5	T	5.1	5	2.4			
Big Creek Mine	8	23	17N 43E	7000	2/27	12.6	3.5	4.6	5	3.1			
Upper Big Creek	9	26	17N 43E	8000	2/27	31.0	9.5	9.4	5	7.2			
Lower Corral	10	12	11N 40E	7500	3/1	No Snow	0	3.5	5	2.6			
Upper Corral	11	20	11N 41E	8500	3/1	19.8	6.5	6.9	5	6.3			
EASTERN NEVADA													
Cave Creek	1	25	27N 57E	7000	3/3	29.9	11.1	15.7	5	15.8			
Hager Canyon	2	34	27N 57E	8500	3/3	39.1	14.5	17.9	6	18.2			
Murray Summit	3	25	18N 62E	7250	2/27	9.4	3.8	3.1	10	4.1			
Baker #1	4	29	13N 69E	7950	2/26	21.1	5.6	3.2	5	6.6			
Baker #2	5	30	13N 69E	8950	2/26	51.4	18.3	9.6	5	17.4			
Baker #3	6	25	13N 68E	9250	2/26	61.7	22.2	9.2	2	11.1			
								No Survey					

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1873	38	37	1873
1874	39	38	1874
1875	40	39	1875
1876	41	40	1876
1877	42	41	1877
1878	43	42	1878
1879	44	43	1879
1880	45	44	1880
1881	46	45	1881
1882	47	46	1882
1883	48	47	1883
1884	49	48	1884
1885	50	49	1885
1886	51	50	1886
1887	52	51	1887
1888	53	52	1888
1889	54	53	1889
1890	55	54	1890
1891	56	55	1891
1892	57	56	1892
1893	58	57	1893
1894	59	58	1894
1895	60	59	1895
1896	61	60	1896
1897	62	61	1897
1898	63	62	1898
1899	64	63	1899
1900	65	64	1900

1853 18 17 1853

NEVADA SNOW SURVEYS MARCH 1, 1947

DRAINAGE BASIN and SNOW COURSE		LOCATION		SNOW COVER MEASUREMENTS										Past Record Years of Record		Av. Water Content (inches)				
				Water Content (inches)																
				1947	1946	1945	1944	1943	1942	1941	1940	1939	1938							
				Number	Sec.	Twp.	Rge.	Elev.	Date of Survey	Snow Depth (inches)	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938
TAHOE, (Cont.)																				
Marlette Lake*		13	13	15N	18E	8000			3/3	58.1	20.4	25.5	21.5		34				25.5a	
Daggetts Pass*		14	19	15N	19E	7350			3/1	31.6	11.2	13.1	11.0		5				16.5a	
TRUCKEE																				
Independence Lake (Cal)		2	9	18N	15E	8450			3/1	59.6	23.9	No Survey	30.8		10				44.0a	
Donner Summit (Cal)		4	25	17N	14E	6900			2/28	46.9	17.9	41.0	24.9		36				39.6a	
Sage Hen Creek (Cal)		7	7	18N	16E	6500			3/2	25.4	9.7	18.8	14.2		10				19.5a	
Tahoe City* (Cal)		8	6	15N	17E	6250			3/1	Trace		12.2	5.8		35				13.1a	
Independence Creek (Cal)		10	14	19N	15E	6300			2/28	10.7	4.3	No Survey	No Survey		10				14.4a	
Furnace Flat (Cal)		12	10	17N	13E	6600			2/26	49.6	20.5	45.4	33.0		29				45.0a	
Fordyce Lake (Cal)		13	34	18N	13E	6500			2/25	37.6	15.8	38.7	26.8		22				37.7a	
Soda Springs (Cal)		14	23	17N	14E	6750			2/28	35.7	14.3	36.5	23.8		18				35.7a	
Independence Camp (Cal)		15	34	19N	15E	7000			2/28	29.0	10.6	25.3	17.1		6				23.3a	
Truckee Ranger Sta. (Cal)		17	10	17N	16E	6000			3/5	21.6	5.9	13.9	10.1		2				11.7a	
Donner Lake (Cal)		18	14	17N	15E	5950			2/27	15.7	7.0	21.6	14.9		3				24.3a	
CARSON BASIN																				
Carson Pass		1	22	10N	18E	8600			2/28	66.9	24.8	28.5	33.7		17				37.1a	
Blue Lakes		3	30	9N	19E	8000			2/28	65.3	23.2	32.3	31.9		27				35.3a	

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NEVADA SNOW SURVEYS MARCH 1, 1947

LOCATION			SNOW COVER MEASUREMENTS						
DRAINAGE BASIN and SNOW COURSE	Number	Sec. Twp. Rge. Elev.	Date of Survey	Snow Depth (inches)	Water Content (inches)			Past Record	
					1947	1946	1945	Years of Record	Ev. Water Content (inches)
WALKER									
Tioga Pass (Cal)	8	30 1N 25E 9900	2/26	43.7	15.6	23.0	27.4	18	26.2 ^a

* Course revised 1947

12

* Course revised 1947

a Average for April 1

Snow Surveyors
March 1, 1947

Upper Humboldt

J. Abegglen	C. Houston
R. Branstead	R. Kuehner
T. Brierley	L. McKenzie
A. Corta	P. Mendive
H. Corta	A. Torgerson
H. Hansen	R. Work

Lower Humboldt

V. Arzuaga	Q. Hansen
H. Cooley	E. Pitts
C. Gnevo	J. Ugaldea
D. Hansen	L. Wilkerson

Eastern Nevada

H. Dill	R. Thomson
C. Houston	K. Wolf
F. Olsen	R. Work

Northern Great Basin

J. Schwartz

Central Great Basin

H. Beisswinger	H. Hoffman
E. Hance	

Lower Colorado

H. Beisswinger	H. Hoffman
E. Hance	

Carson Basin

D. Deane	N. Green
F. Deane	

Truckee Basin

A. Chase	J. Johansen
P. Cowgill	E. Raiford
V. Hart	J. Watts
E. Johansen	

Tahoe Basin

W. Herz	F. Hodgkins	W. Simmonds
D. Hodgkins	H. Leonard	H. Wolf
	E. Marsh	

NEVADA COOPERATIVE SNOW SURVEYS

State

Nevada State Engineer
Nevada Agricultural Experiment Station
California Division of Water Resources

Federal

Soil Conservation Service
Forest Service
Weather Bureau
Bureau of Reclamation
Geological Survey
Fish and Wildlife Service

Public Utilities

Sierra Pacific Power Company
Elko-Lamoille Power Company
Wells Power Company

Organized Public Agencies

Truckee-Carson Irrigation District
Washoe County Water Conservation District
Walker River Irrigation District

